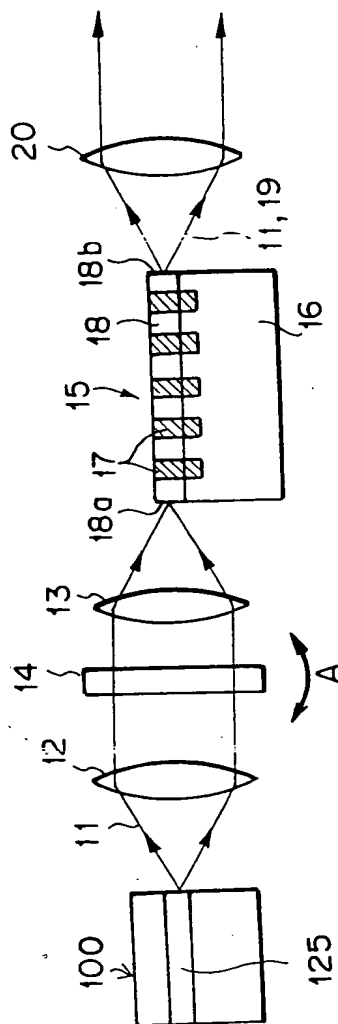


APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

YAKAWA, Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
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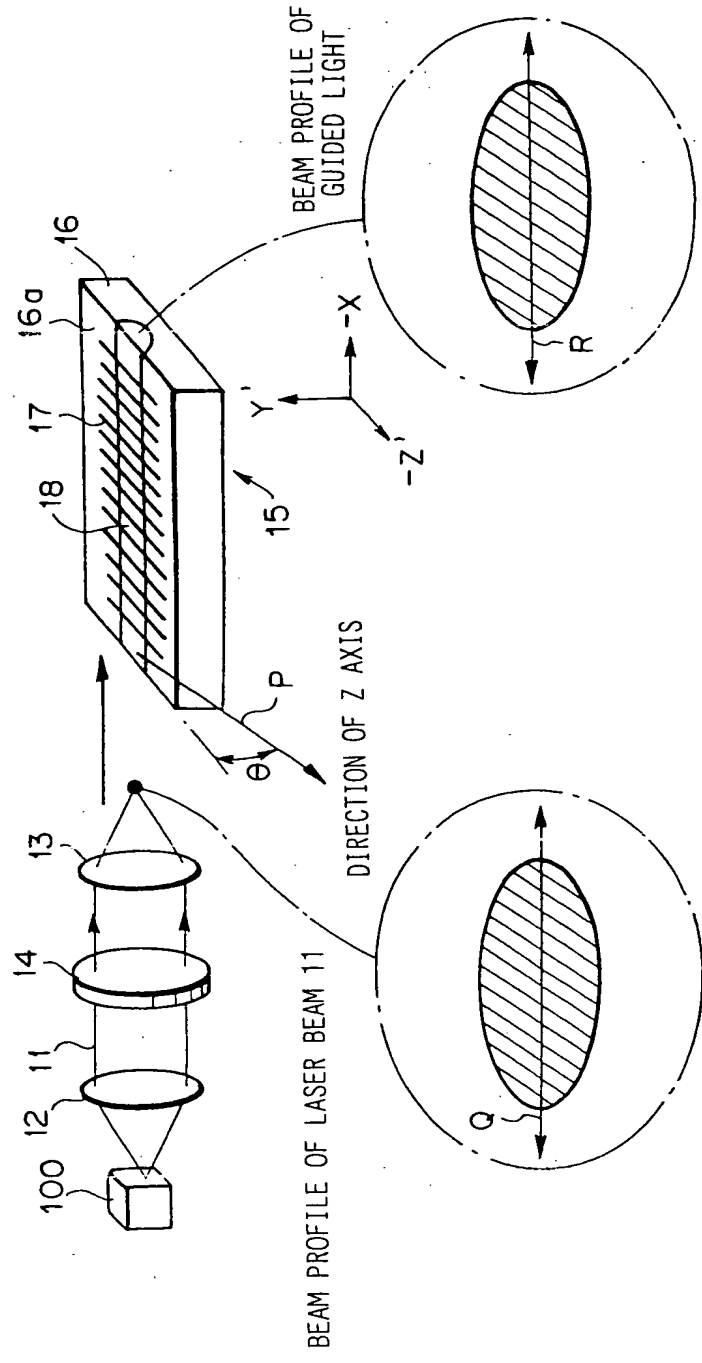
FIG. 1



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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FIG. 2

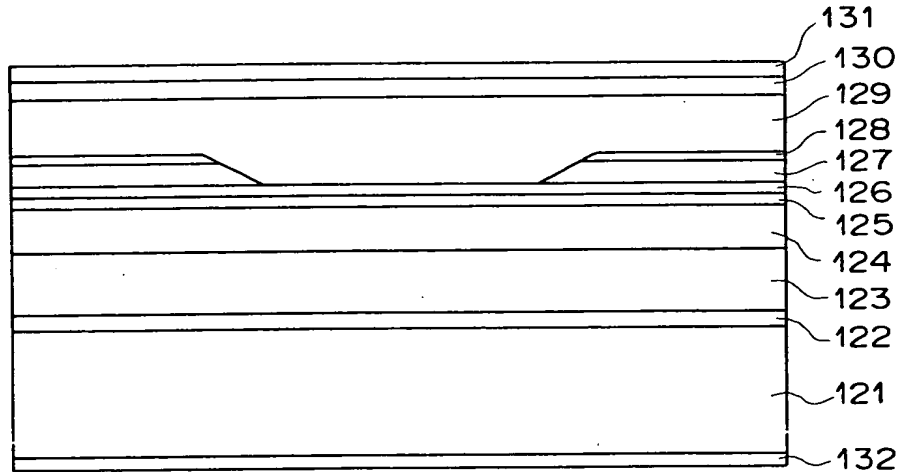


APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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FIG. 3

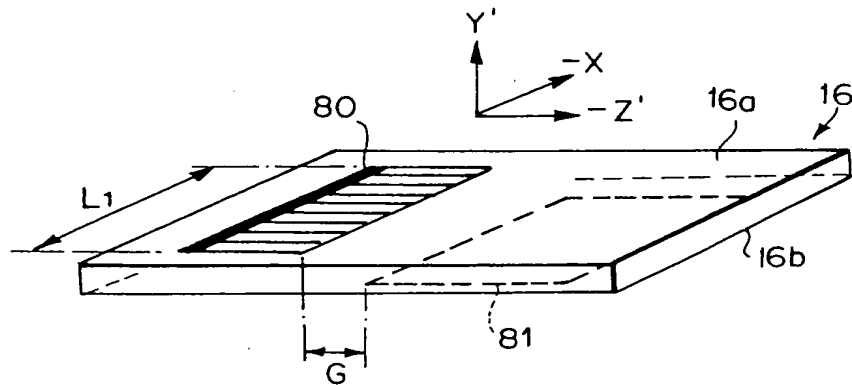
100



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

YAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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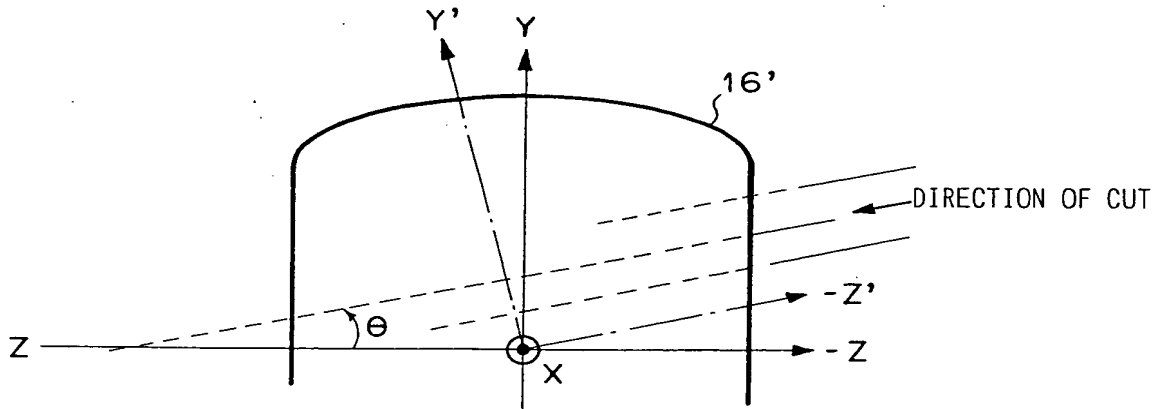
F I G . 4



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

YAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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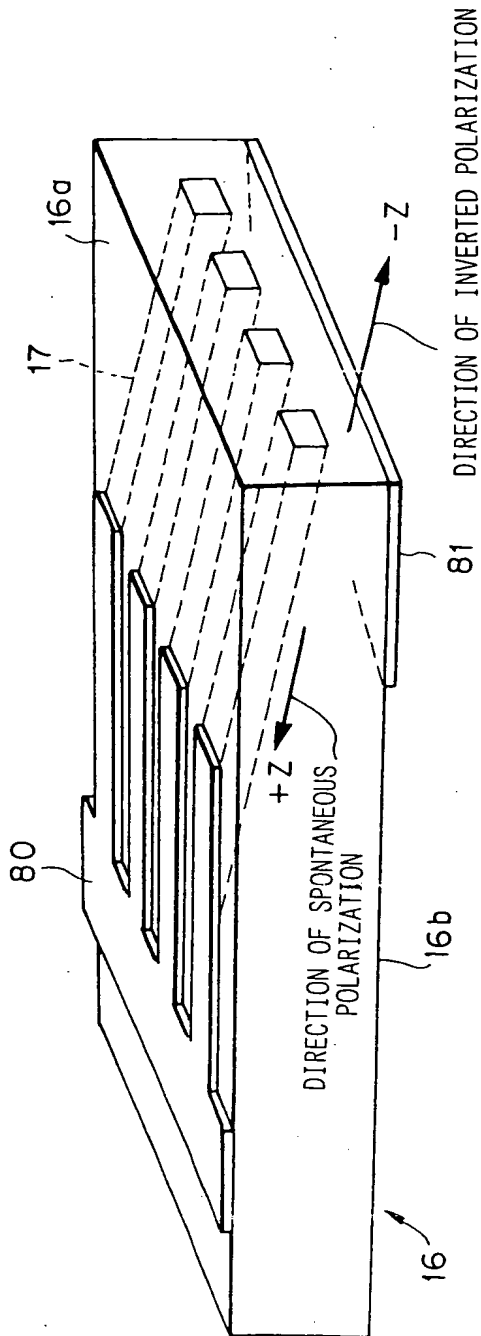
F I G . 5



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Q64226
HAYAKAWA
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLA
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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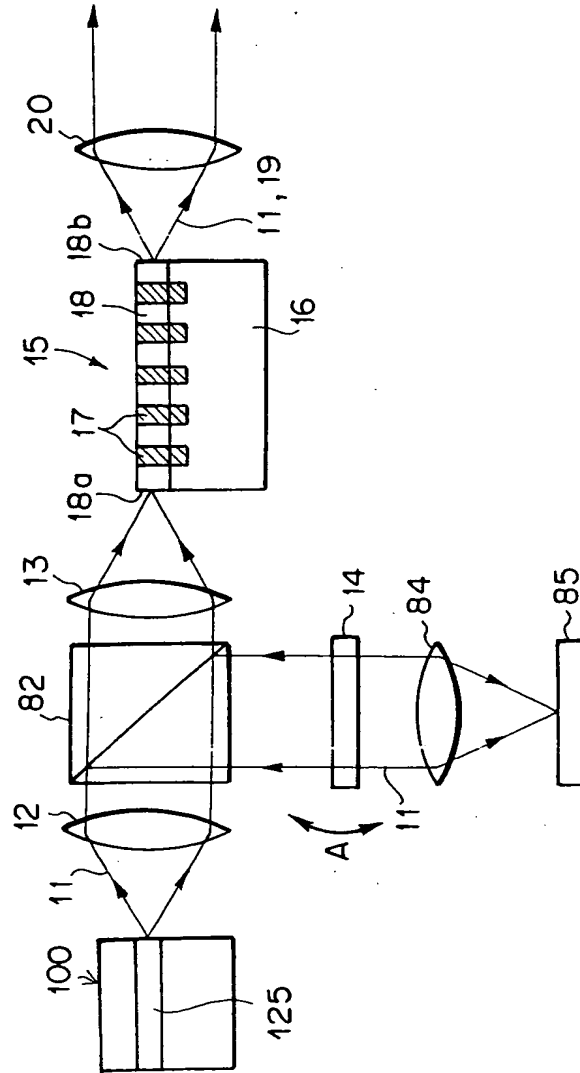
F I G . 6



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA, Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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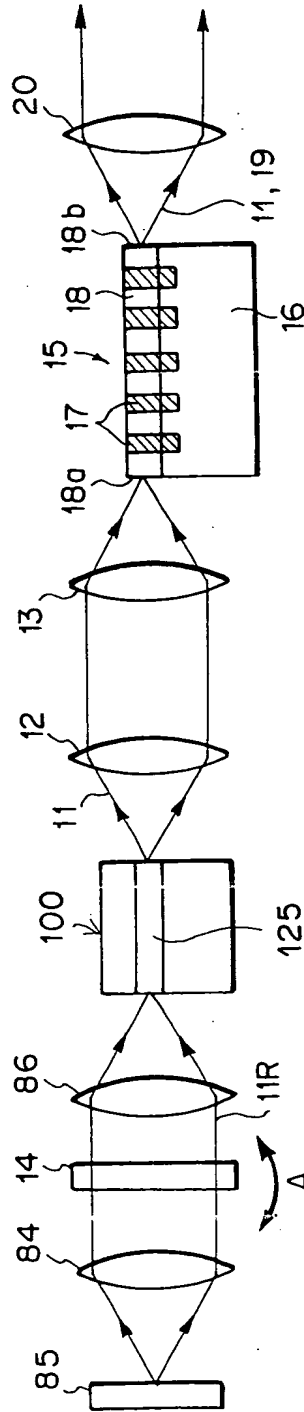
FIG. 7



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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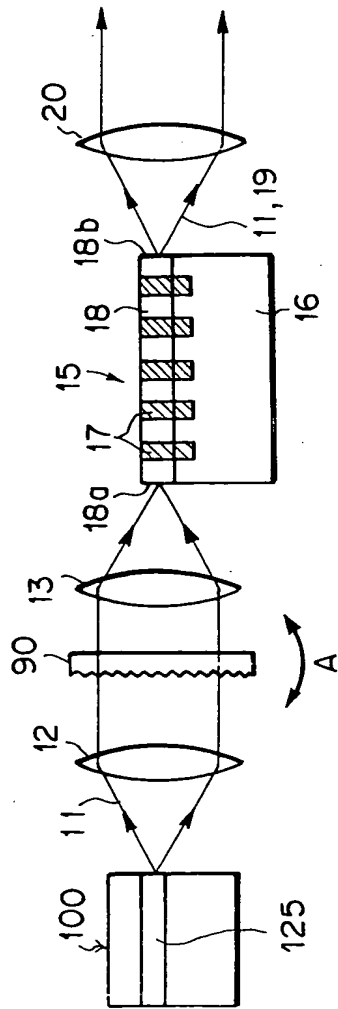
F I G . 9



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
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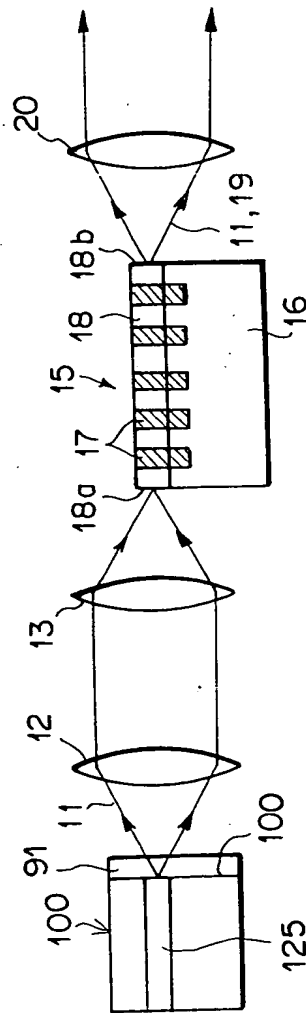
F I G . 10



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
 Darryl Mexic.....202-293-7060
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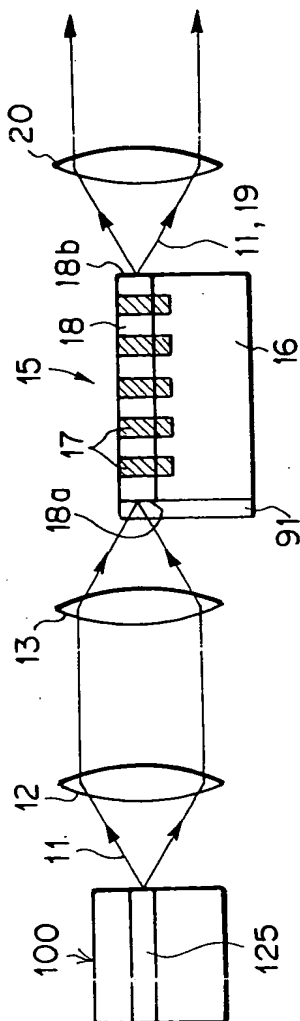
F I G . 11



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA, Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
 Darryl Mexico 202-293-7060
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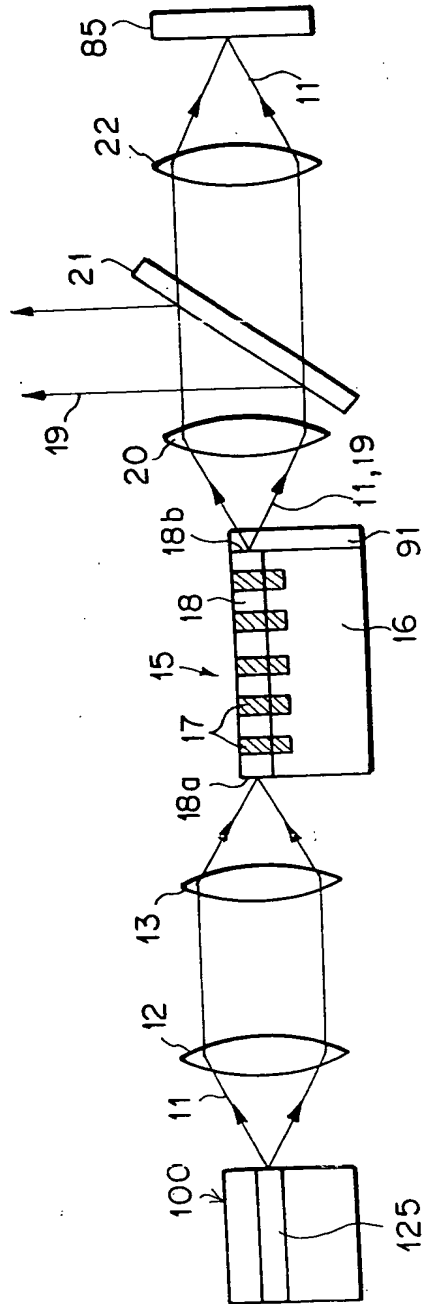
F I G . 1 2



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

KAWA.....Q64226
 CONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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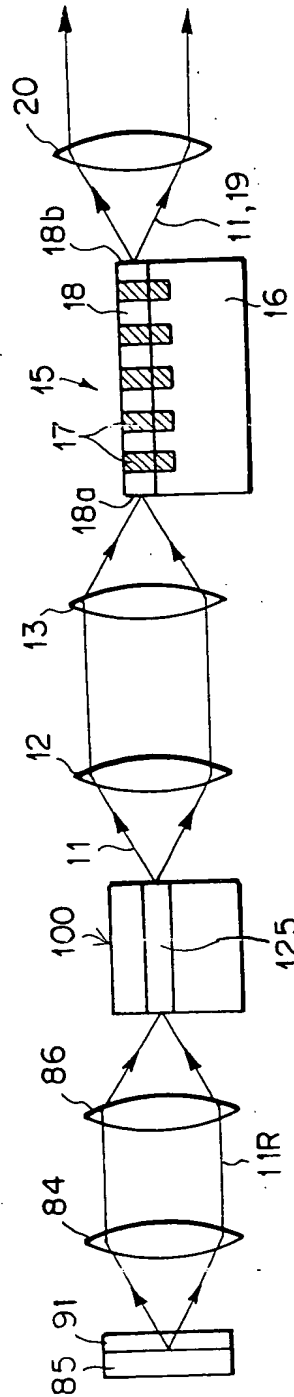
F I G . 1 4



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA, Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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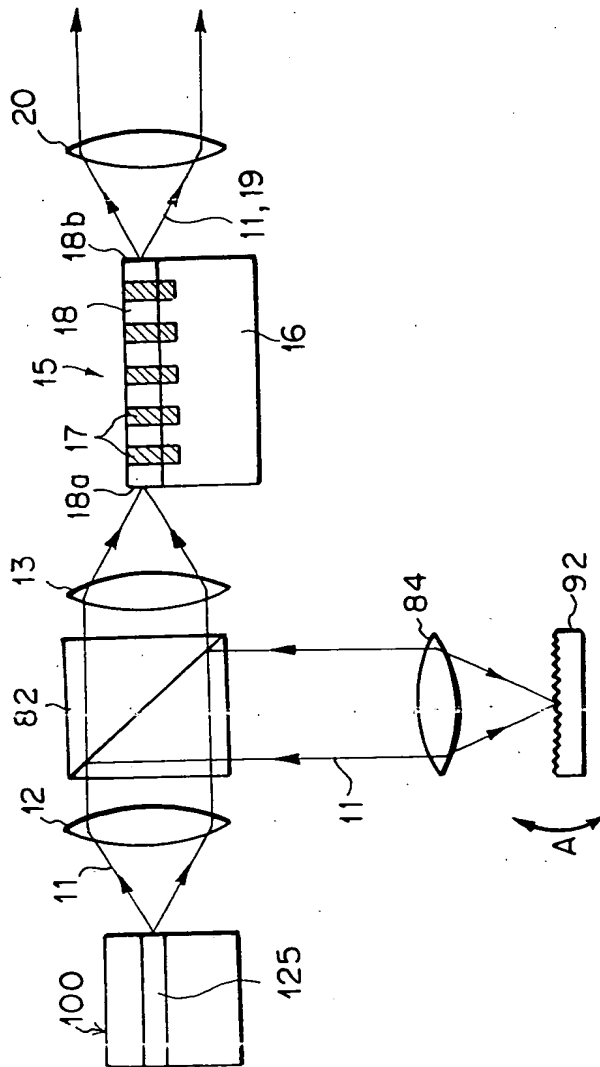
F I G. 15



APPROVED	O.G. FR.
BY	CLASS
DRAFTSMAN	SUBCLASS

YAKAWA, Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
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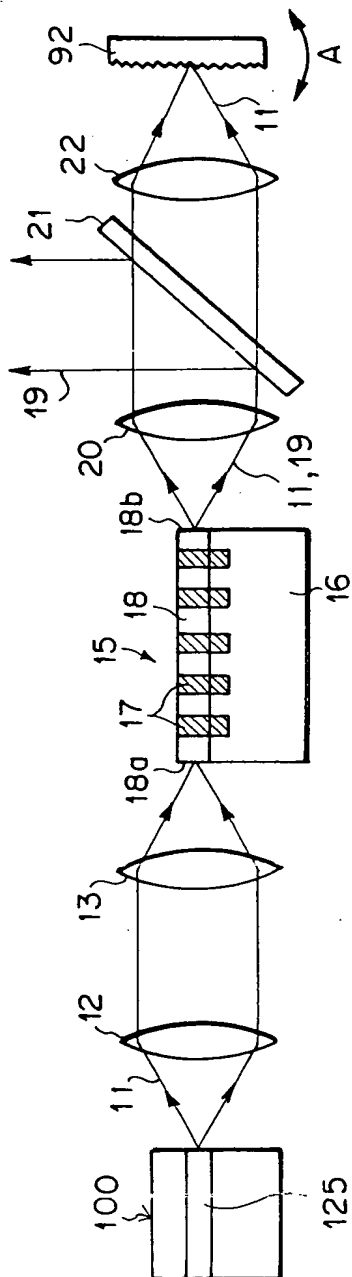
F I G. 16



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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F I G . 17



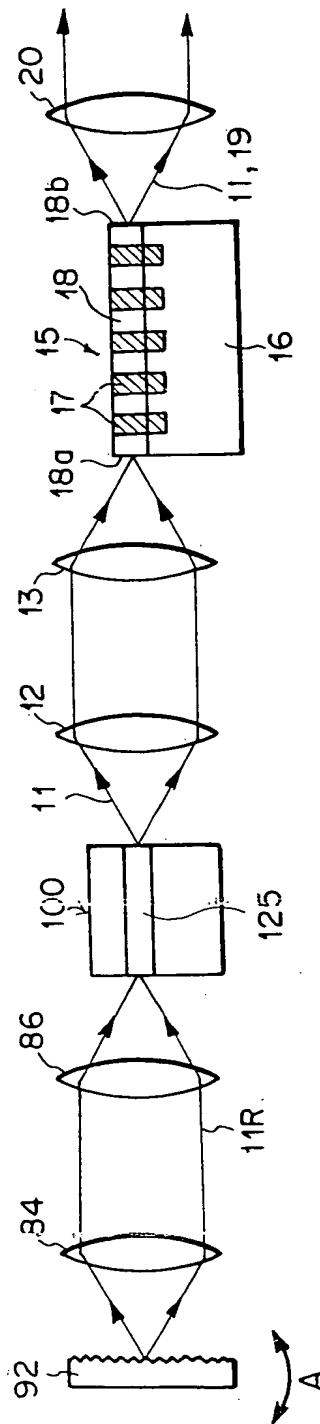
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
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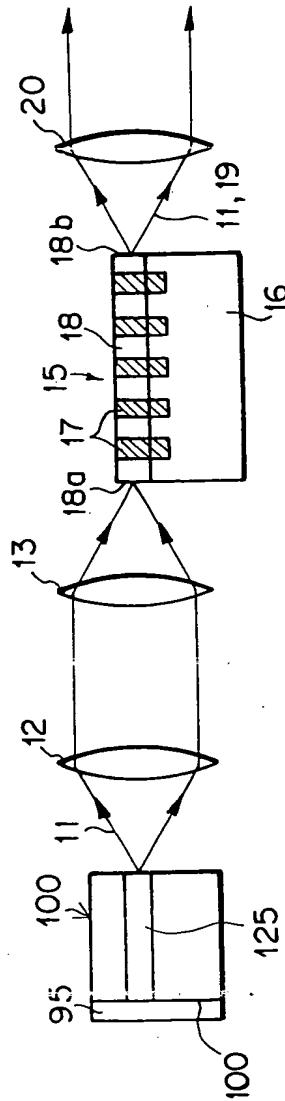
F I G . 18



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
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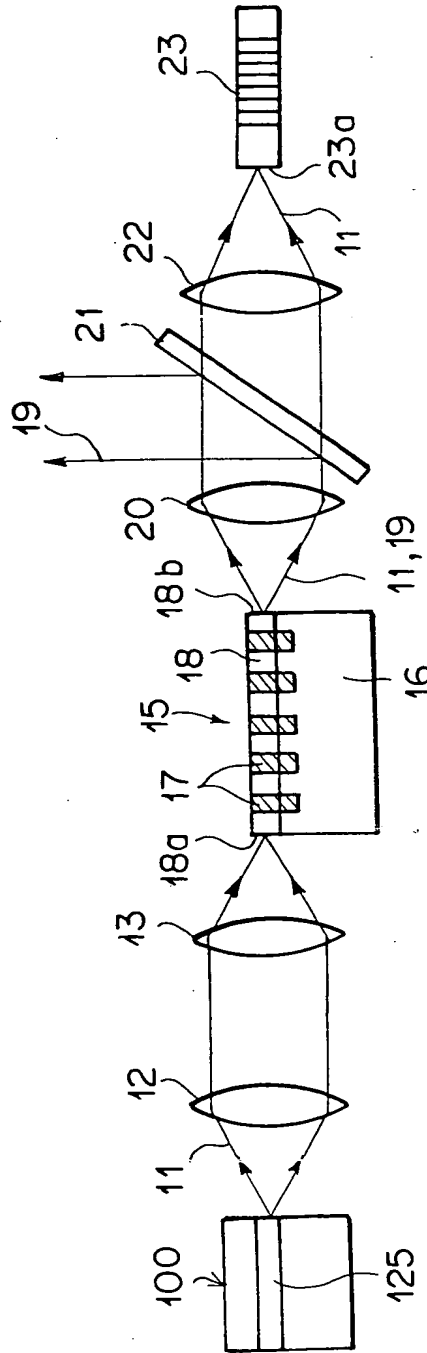
F I G . 19



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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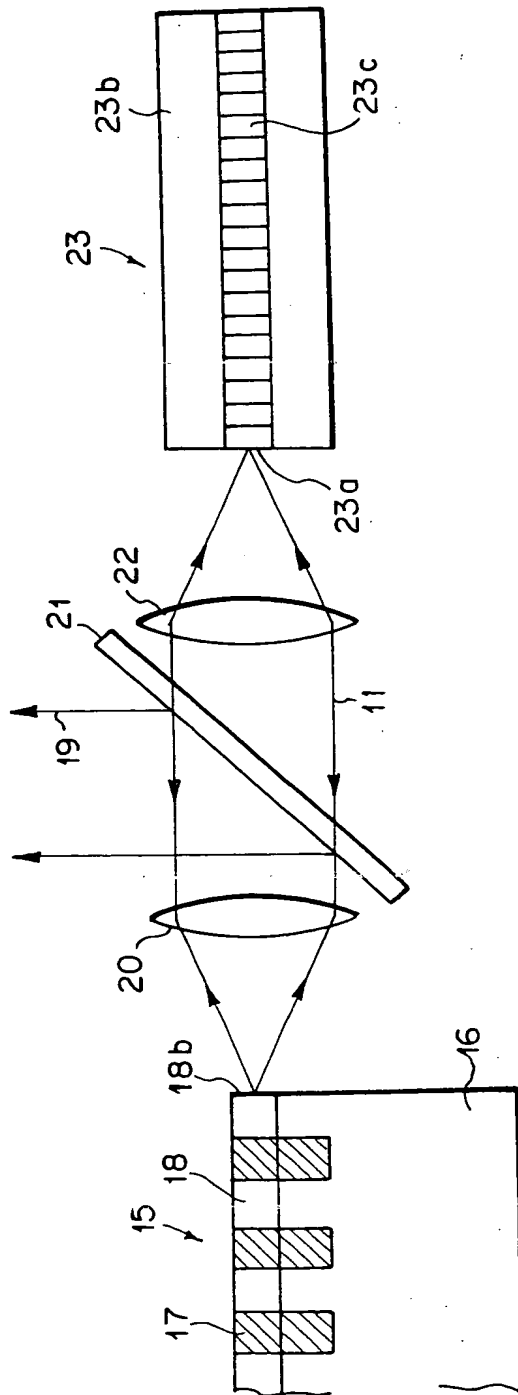
F I G . 20



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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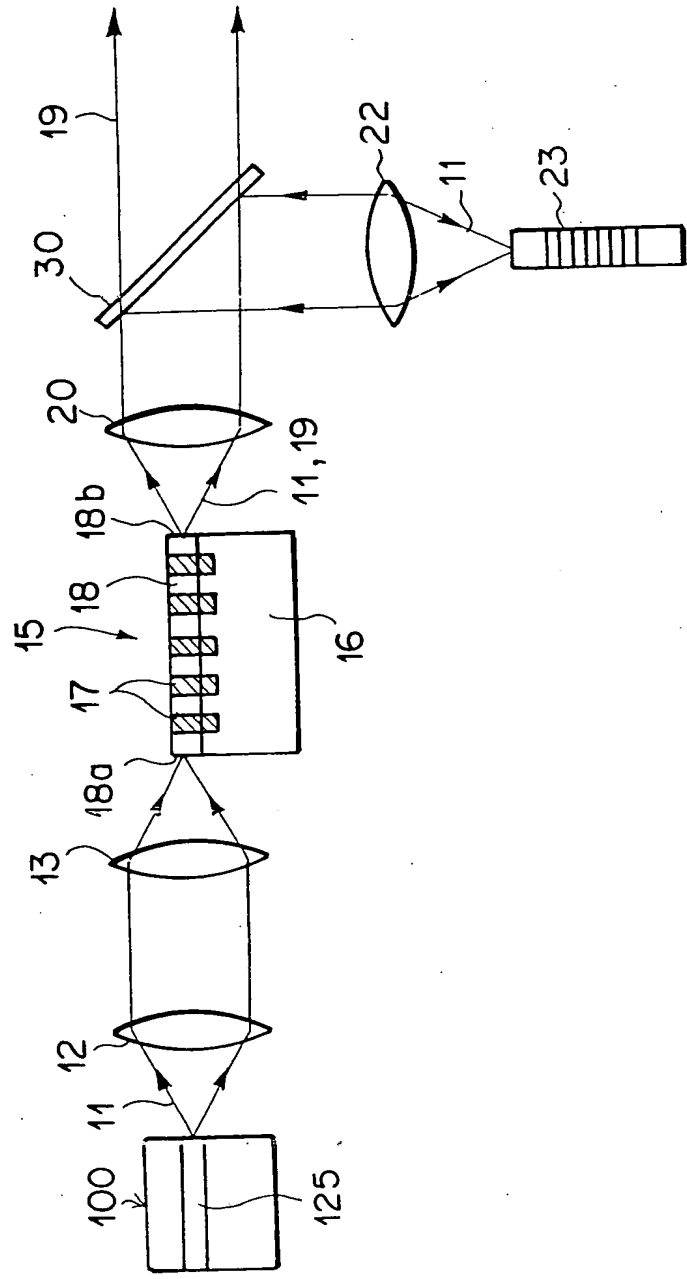
F I G . 2 1



APPROVED	C. G.
BY	C. G.
DRAFTSMAN	

HAYAKAWA Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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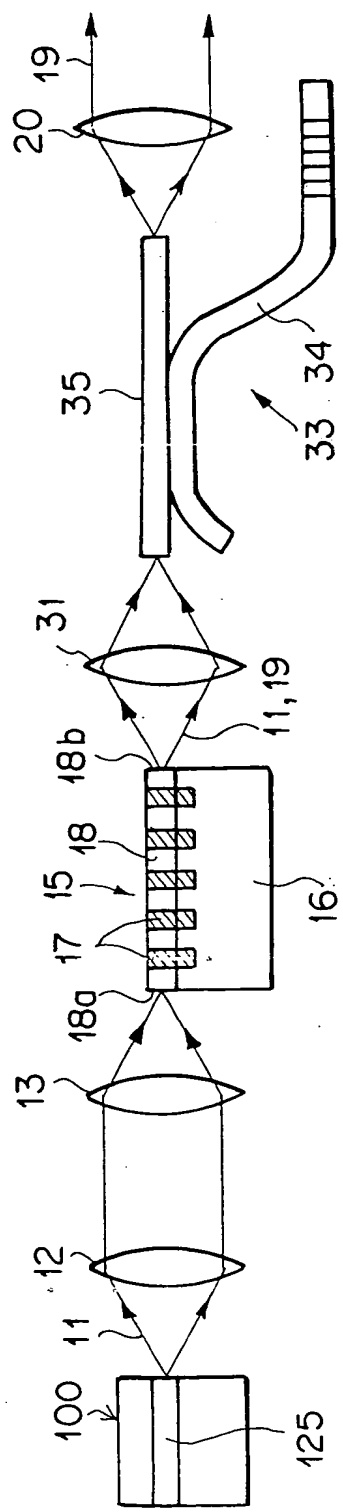
F I G . 22



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
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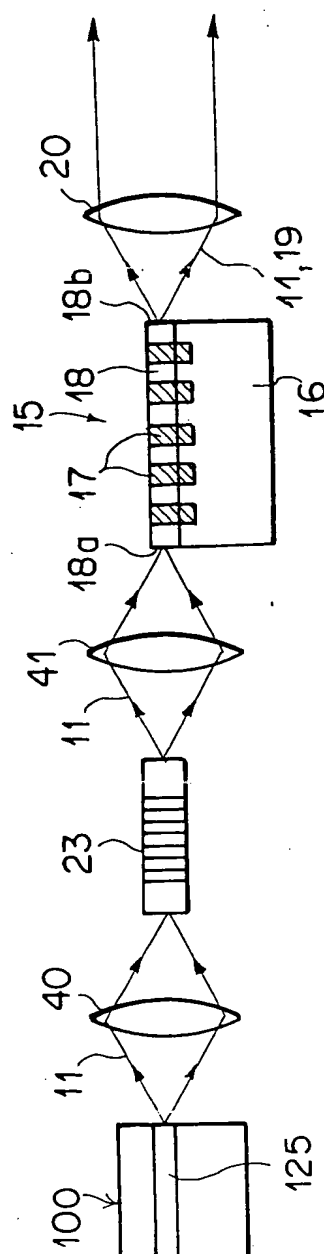
F I G . 23



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

HAYAKAWA Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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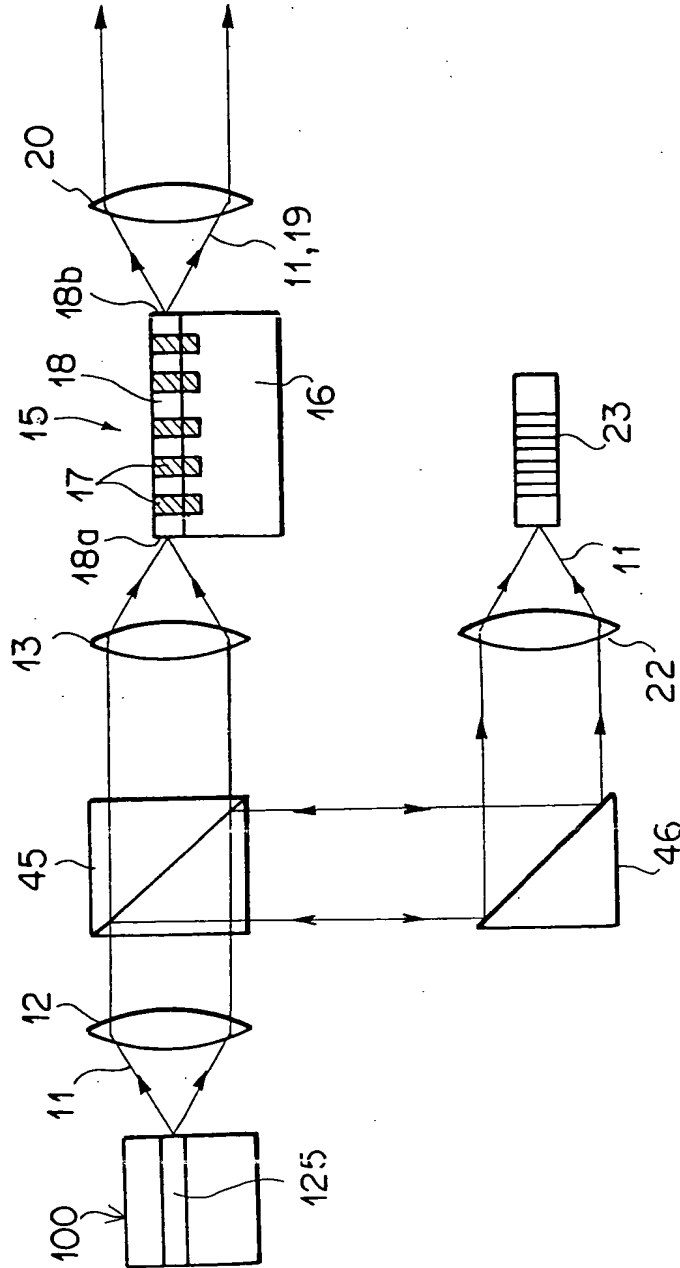
F I G . 24



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

YAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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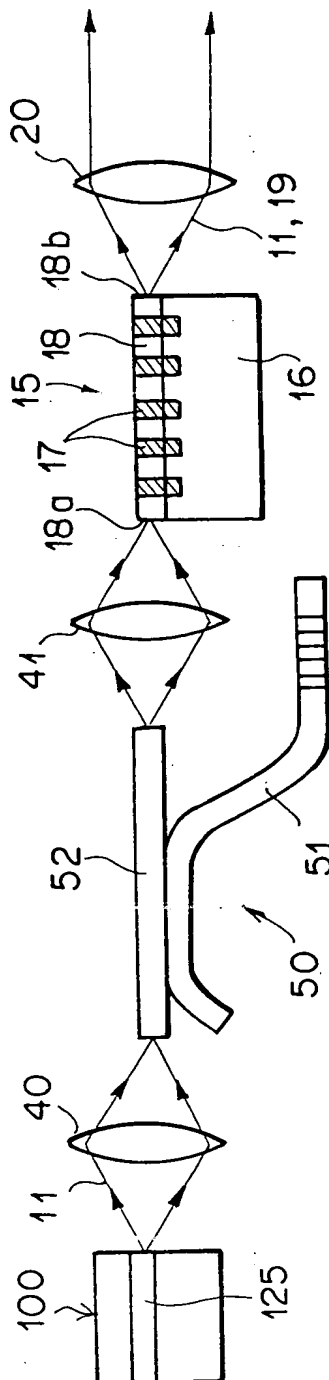
F I G . 25



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
CRAFTSMAN	

HAYAKAWA
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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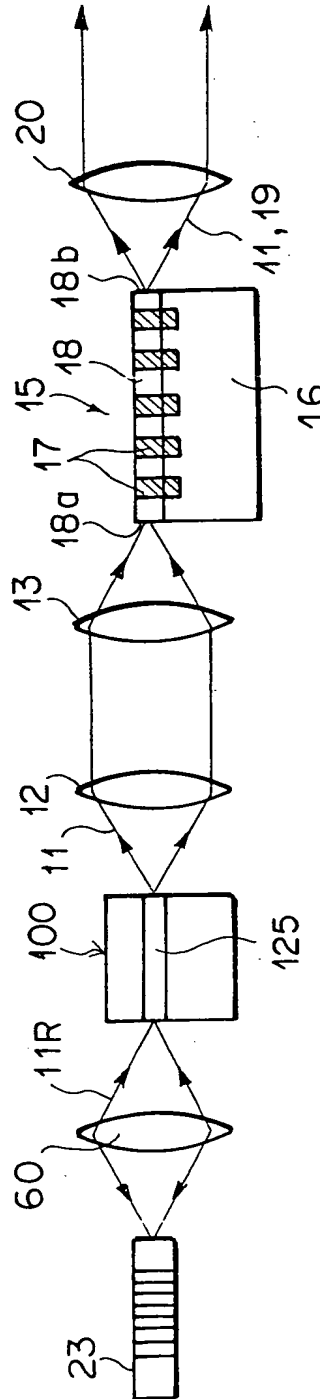
F I G . 26



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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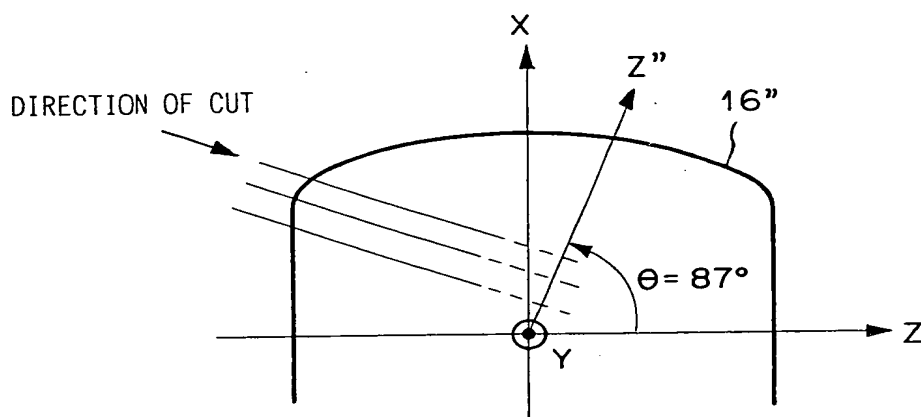
F I G . 27



APPROVED
BY
DRAFTSMAN

HAYAKAWA.....Q64226
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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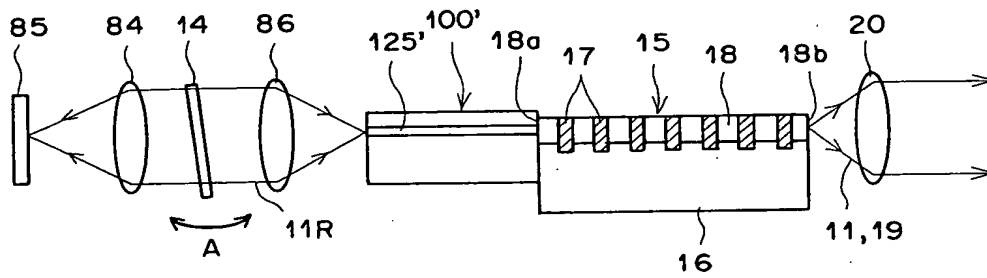
F I G . 28



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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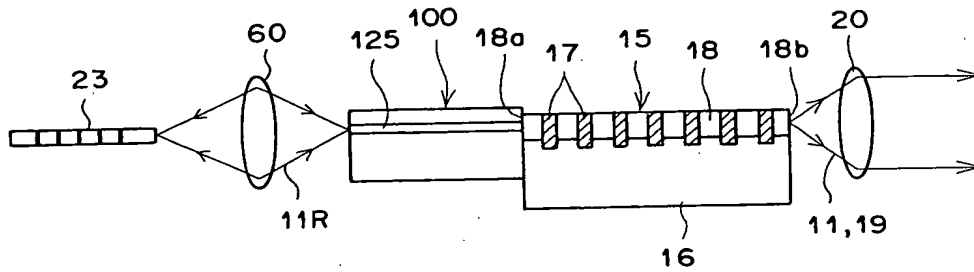
F I G . 29



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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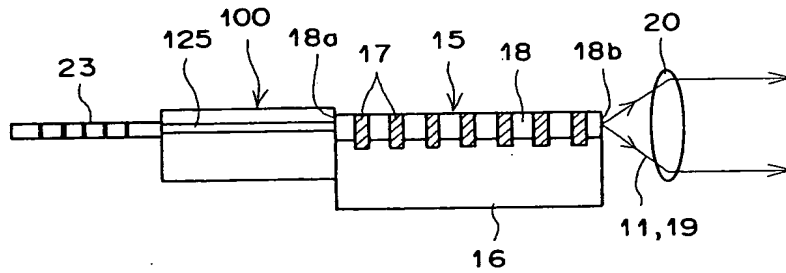
F I G . 30



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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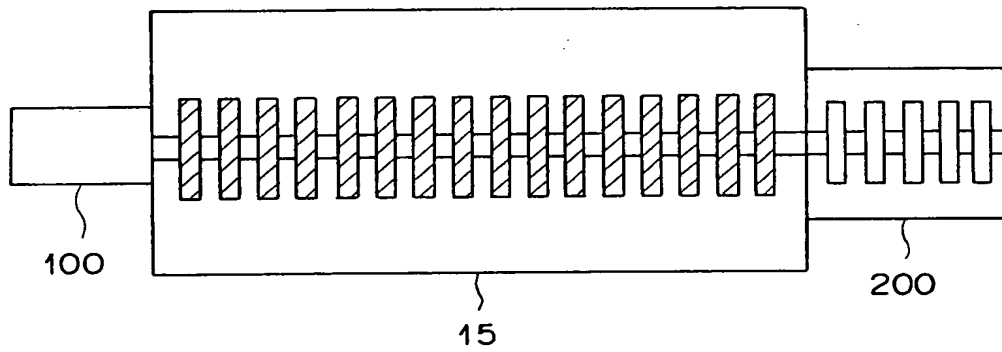
F I G . 31



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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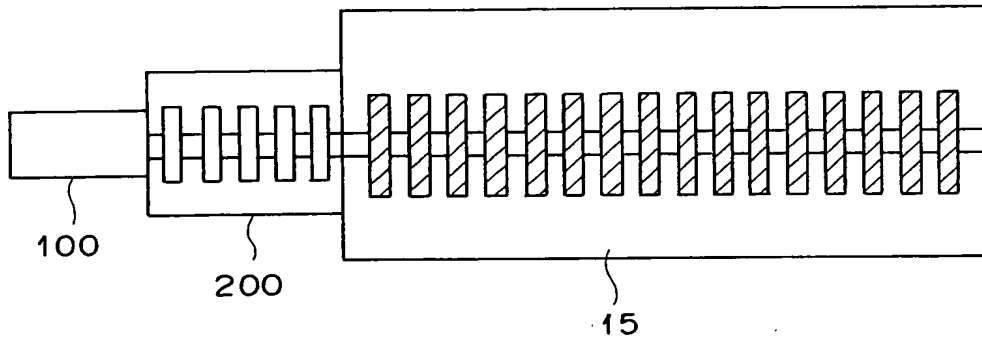
F I G . 33



APPROVED	O.G. FILE	
BY	CLASS	SUB
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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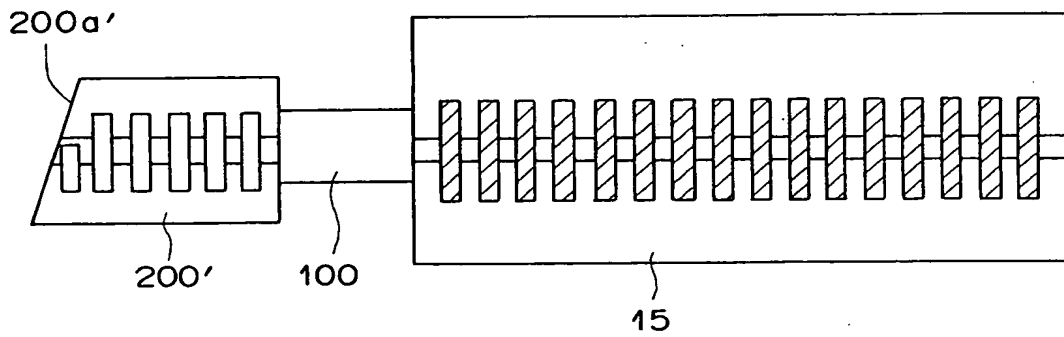
F I G . 34



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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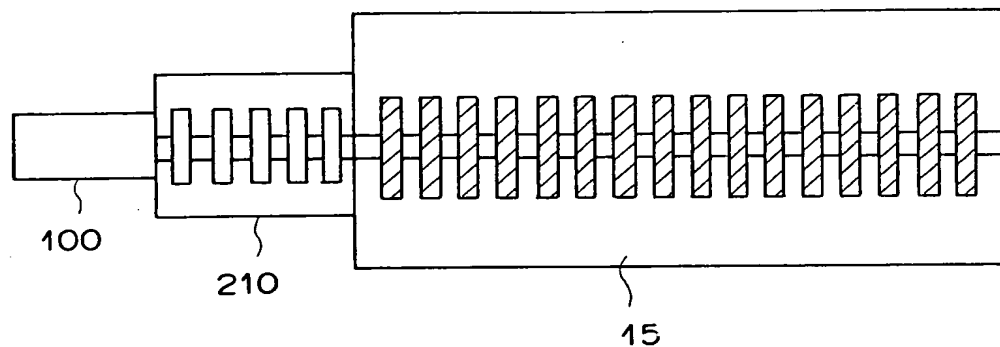
F I G . 35



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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F I G . 36

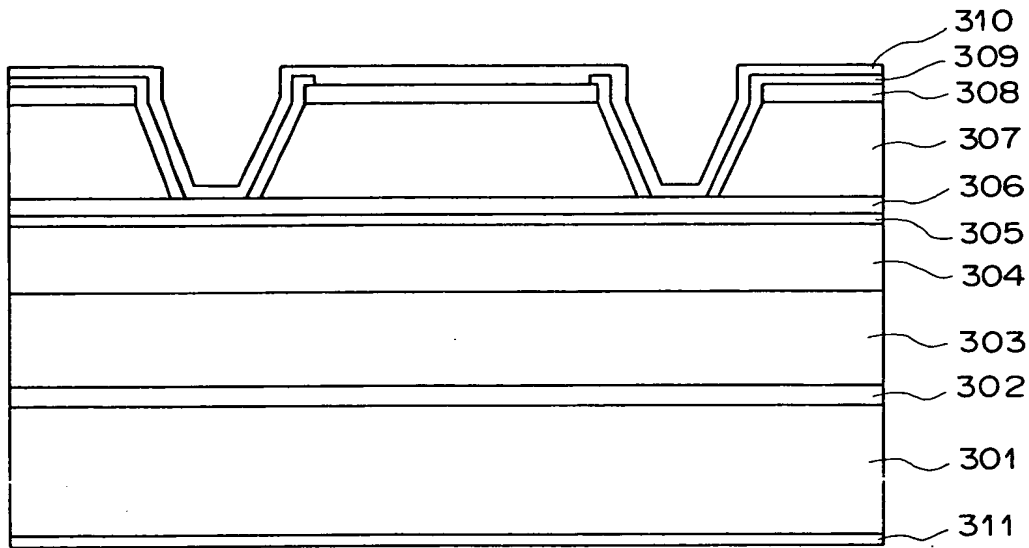


APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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F I G . 37

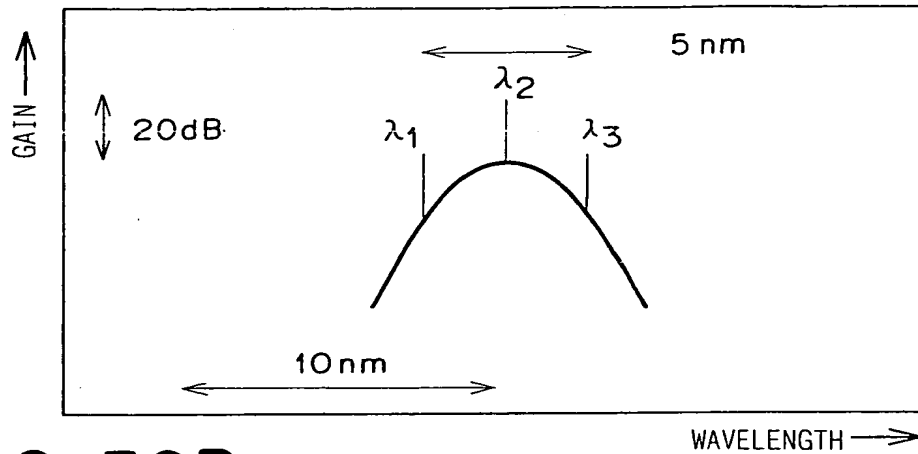
300



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Q64226
HAYAKAWA
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAY
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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F I G . 38A



F I G . 38B

